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HABERSHON, DISEASES OF THE ALIMENTARY CANAL. 16 PAGES.

CLINICS.

HOSPITAL NOTES AND GLEANINGS.

Dilatation Treatment of Obstructions of the Nasal Duct .- The plan of slitting up the lachrymal canal in order to gain access to the sac and nasal duct, as first practised by Mr. Bowman, is now very frequently followed in the out-patients' room at Moorfields, and with most satisfactory results. Formerly, in order to allow of catheterization of the nasal duet, an incision had to be made into the sac, and risk was run that a The intervals allowed should be from four fistula might remain. Besides this, it was days to a week, and the probe used should a painful and very troublesome procedure, on each occasion be allowed to remain in very disfiguring to the patient as long as the for half an hour or so. The principle of fistula remained open, and of course always cure is precisely similar to that of strictures leaving a permanent scar. The new plan of the urethra by the bougie. -Med. Times is exceedingly simple, and avoids all these and Gaz., June 19, 1858. inconveniences. The lachrymal duck hav- | [This alitting up the lachrymal canal, in ing been freely alit up on its conjunctival order to gain access to the sac and nasal

aspect, the introduction of a probe of any desirable size into the sac is quite easy, and when there, by elevating the handle, the nasal canal is readily entered. The slit-up duct remains permanently open, but without either disfiguring or inconveniencing the patient, and the surgeon may repeat the use of the probe at intervals for as long as may be necessary. We have seen several very threatening cases of lachrymal abscess wholly cured after two or three dilatations. but in a general way so few do not suffice.

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duct for the dilatation of stricture, is wholly \ Not a single troublesome symptom followed, unnecessary. The object may be as readily accomplished by the introduction of Hays's probe by the lower puncta, as described in Lawrence's Treatise on the Diseases of the Eye, p. 920. (Philad.: 1854.)]

Abscission of Staphyloma and Closure of the Wound by Suture .- There has been, of late, considerable discussion amongst Ophthalmic Surgeons as to the relative advantages of removing the globe, and of slicing off its front in cases of staphyloma, etc., in which it is wished to introduce an artificial eye. On the one hand, there is no doubt that abscission leaves a better stump, and secures better motion to the artificial front; whilst, on the other, it is a much more formidable procedure than excision of the entire globe. If the globe be removed, the conjunctive falls together, the air is excluded, and very speedy union results. We have often known the artificial eye introduced within the week. If abacission have been performed, there is, in the first place, risk of most troublesome bleeding from the now unsupported choroidal vessels, and in the second, there is the almost certainty of a tedious suppuration. Often before the sclerotic collapses and the part heals, the inflammation has been severe, and the discharge very profuse, and the patient has had to undergo great and protracted suffering. And this may be stated to be the rule. It is quite exceptional for a patient to be able to resume his occupation in less than a month after such an operation, and a still longer delay is usually needed before an artificial eye can be worn. Mr. Critchett has recently attempted in two instances to diminish these inconveniences, by carefully closing the divided conjunctiva by sutures. Thus, the first step in the operation consists in dissecting back the conjunctiva and cellular tissue, as if for excision of the globe. The anterior part of the eye is then cut off, and sutures having been deeply passed, the whole is closed. The first case occurred about a month ago, but unfortunately we are unable to state the result, as the patient did not attend again. The second was operated on ten days ago, and did most successfully. The greater part of the vitreous was evacuated at the operation. The line of union was horizontal. Five autures were employ-

and a week afterwards, when the lad was again brought before the class in the operating theatre, the part was as well healed as it might have been expected to have been, had the globe been excised. Not the slightest swelling of the lids had occurred. and in another week or two an artificial eye will probably be put in .- Med. Times and Gaz., July 3, 1858.

Ligature of the Femoral Trunk on Account of Secondary Hemorrhage after Ampulation.-In cases of hemorrhage from a large artery in a stump, it is a question not always easy of answer whether the vessel should be resecured from the wound, or a ligature should be placed on the main trunk higher up. In a general way, to re-open the stump and tie the bleeding mouth, would no doubt be the preferable measure; but in certain exceptional cases, Mr. Guthrie's wellknown rule on this matter may be judiciously deviated from. A very cachectic man, aged about 30, had his thigh amputated by Mr. Birkett, in Guy's, a few months ago, on account of a large fibro-sarcomatous tumour in the leg. He did well afterwards, and the main ligature came away on the 16th day, all the others having previously done so. Two days after this, early one morning, profuse arterial hemorrhage took place. The stump was now almost healed. In Mr. Birkett's absence, Mr. Bryant was summoned to the man's bedside. The bleeding had been very free, but was wholly arrested by the pressure on the femoral trunk, which the dresser was keeping up. An interval of about two hours now elapsed (pressure being persevered with meanwhile). The tendency to recurrence of bleeding on removing the hand, however, at length made Mr. Bryant determine not to wait longer; and having regard to the man's feeble and cachectic condition, and the probability that ulceration of the vessel had taken place, and that its coats were diseased, he decided to put a ligature on the common femoral. This was done with complete success. The made a good recovery .- Med. Times and Gas., June 19, 1858.

Wound of the Femoral Artery-Unusual Arrest of Hemorrhage. - In connection with the point of practice brought under debate ed, and the union was close and accurate. by the above case, we cannot forbear men-

tioning very briefly one which has recently Swales), at Sheerness. Although not an hospital case, its interest will excuse our referring to it. A butcher's boy, aged 14, was swinging himself in the slaughter-house by a rope hanging from a rafter. By accident, he awung himself with considerable force on to the point of a large knife with which his master was employed at the other side of the room. The thigh which struck the knife was transfixed by it, and an enormous oblique gash on its inner aspect was inflicted. The bleeding was fearful, and the lad was at first believed to be dead. No doubt was felt but that the femoral trunk about its middle and several of its large branches were wounded. Feeling certain that more than one vessel in so large a wound must require ligature if the attempt were made according to rule, and fearing the results of a prolonged search and additional loss of blood in the already exsanguined state of the patient, Mr. Swales determined at once to tie the common femoral. This was quickly done-at least the armed needle was quickly passed under the trunk. On removing pressure, however, from the vessel after the ligature had been passed, it was found that no further hemorrhage occurred. After waiting some time to see if it would return, and there being no resppearance, it was decided to leave the silk in situ, but not to tie it. For several days and nights assistants sat by the lad constantly in readiness to apply the finger and to tie the ligature should the bleeding recur. It never did, however; and at the tenth day the ligature silk was withdrawn. The boy made a good recovery, but at the time at which the particulars of the case were communicated to us, no pulsation had returned in the popliteal or tibial arteries. It thus seemed all but certain that the original diagnosis was correct as to the trunk having hemorrhage was no doubt due to the firm fixture of clots in the injured vessels during the long syncope which followed the accident. As to the wisdom of the daring omission to tie the ligature after it had been passed, the opinions of surgeons will perhaps differ. Few will, however, dispute, but that the reasons which induced Mr. exploring the wound were sound and sufficient .- Ibid.

Necrosis of Fragments of Bone in Conoccurred in the practice of a surgeon (Mr. | nection with Diseased Joints .- Mr. Sonly has recently had two or three very interesting cases under his care in St. Thomas's, illustrating the occurrence of necrosis of portions of bone in connection with diseased hip-joint. In one, a young woman, the portions were removed by operations, which consisted in the very free laying open of the sinuses, and examination of the parts. The head of the bone was dislocated. The exfoliated portions, which were quite loose. appeared to have belonged to the acetabulum rather than to the femur. The case had originally presented very acute symptoms. The whole of the exfoliated fragments having at length been got away, the girl made an excellent recovery. In a second case it was intended to make exploratory incisions, in the belief that some dead bone would be found; but it being discovered that the man was the subject of pulmonary phthisis, the idea was abandoned. The phthisis ran a rapid course, and an opportunity was soon afforded for a post-mortem dissection of the parts. The diagnosis was then fully confirmed, several portions of bone, which had no doubt been the main causes of the persistent irritation, being found. It is to be borne in mind that these cases are examples of the occurrence of necrosis, together with joint mischief, or rather, perhaps, as a consequence of it. There is another important group, in which the necrosis of limited portions of bone in the close neighbourhood of a joint simulates mischief within its cavity. In the latter, a correct diagnosis of which is exceedingly important to perform, excision would be a blunder, while in the former, it would be justifiable, although not generally to be recommended, if there be reason to believe that the loose portions of bone are sufficient to account for the persistence of the disease, and that the original articular inflammation been involved in the wound. The arrest of is tending to cure.- Med. Times and Gas., June 19, 1858.

Adhesion of Calculi to the Bladder .-Many surgeons have expressed doubts as to whether calculi ever became really united to the bladder, and attribute to mistaken impressions during the performance of the operation the statements of lithotomists as Swales to prefer tying the main trunk to to their having encountered difficulties in removing the atone on account of adhesions which it contracted. There can be little

doubt but this occurrence is talked of much danger from the risk of inflammation-a oftener than it really occurs, but that it seton was passed through it, and a puncture does so occasionally is equally beyond readlet out all the serum it contained, which was sonable question. Several instances are sanguinolent. Its cure is a question of time; on record in which calculi were found after but the man is at present going on well. death occupying the bladder and united by organic adhesions to its walls, and with Mr. Cock removed a tumour the size of a such in remembrance it is not fair to set? down all those in which the operator's impressions are the only obtainable evidence, as mistakes or as excuses for the indexterous use of the forceps. A case in which the evidence in support of the belief that the stone was really adherent, was unusually strong, has just occurred to Mr. Henry, at the Middlesex Hospital. The patient was a boy aged 11, in whom symptoms of stone had for long existed, but of late with considerable mitigation. A large calculus was easily detected. In the operation, Mr. Henry stated that he found it connected with the anterior part of the bladder, and difficult to reach. Repeatedly it eluded the forceps, and was eventually only seized by the aid of firm pressure made over the lower part of the abdomen. When extracted, its exterior presented some shreds of organized membrane firmly attached. These shreds were submitted to microscopic examination, and were then found to present all the characters of granulation structure undergoing organization. The lad recovered, and so happily no opportunity was afforded for inspecting the interior of the bladder .- Med. Times and Gas., June 5, 1858.

Tumours at the Seat of the Insertion of the Sartorius Muscle.-The insertion of the eartorius muscle takes place by an aponeurotic expansion into the inner tuberosity of the tibia. This muscle is the longest in the body, and as its use, besides being an abductor and an elevator, is to cross the legs over each other, as tailors sit with them, it accounts for the name. Underneath the expansion of the tendon of insertion of this muscle most pressure exists when the legs are placed in the position just referred to, and will account for the presence of a bursa in this situation. An example of the kind was submitted to treatment by Mr. Fergusson, at King's College Hospital, on the 29th of May, in an elderly man. The tumour in this peculiar situation was the size of a small, flattened orange; but as it would have been a matter of some difficulty and danger to dissect it out in this situation- publish this week some particulars of the

At Guy's Hospital, on the 1st of June. walnut, situated over the insertion of the sartorius muscle of an elderly woman, who had had the growth for fourteen years, commencing at first in the shape of a small kernel. She had recently struck the tumour by accident, which caused violent inflammation not only in it, but in the surrounding skin. This having subsided, permitted of removal. A section of the growth showed it to be fibrous in structure, but infiltrated with blood, which might have led to degeneration of a malignant character. The result of the operation is at present satisfactory .- Lancet, June 19.

Chlorate of Potash Lotion in Cancerous Ulcers .- At the Royal Free Hospital, Mr. Weeden Cooke is in the habit of employing a lotion to heal up various kinds of ulcers which is worthy of attention. It consists of half an ounce of the chlorate of potash, forty minims of hydrochloric acid, two drachms of the sedative liquor of opium, and a pint of water (twenty ounces). This has been lately used in a very severe case of ulcerated cancer of the lower lip, left side of the face, and left half of the upper lip, in a man aged forty-six, the subject of it these last five years, who had formerly undergone an operation with but temporary benefit, although the disease in him is not hereditary, and who was admitted with this cancer in a horribly foul, swollen condition. When we saw the patient on the last occasion June 1st), we observed that his general health had much improved by a course of internal medicine of bark and hydrochloric acid, and the lotion had converted a malignant sore into a healthy granulating ulcer, of a clean pink colour, with a disposition to heal up at the margins. The tendency to bleed, which was always present before, had now completely ceased; and we hope that a large portion of this ulcer may eventually cicatrize under the plan of treatment employed .- Lancet, June 19.

Recoveries from Acute Tetanus. - We

sent under care in three of our London 1858. hospitals. In that in Guy's Indian hemp? was the remedy. Mr. Simon, in his case? Abscess in the Brain from Obliteration of disease.

vert with regret, as we have also done seve- of things was found. In the right cerebral ral times heretofore, to the small amount of hemisphere were three distinct abscesses, lute quiet of tetanic patients in our hospital softer than that of the opposite side. The and from visitors, and without draughts, is literation of the internal carotid artery by a measure which, whatever the drug to be the compression and irritation of a large used, ought never to be neglected. But too passat polypus, which had grown upwards often we are compelled to say the plan pur- and caused extensive absorption of the body sued is the reverse of all this .- Med. Times of the sphenoid bone. It was impossible and Gaz., July 3, 1858. to trace the carotid artery through the ca-

case of recovery from tetanus which has Recent Prevalence of Tetanus Cases .recently occurred under Dr. Wilk's care in To judge from our own impressions in visit-Guy's Hospital, and to which we referred ing the different London Hospitals, we a few weeks ago. It will be observed that, should suppose that teranus has been most although one of the vannted remedies had unusually frequent during the last few been employed, yet those who watched the months. Seven fatal cases and one recovery case do not incline to give it the credit of have, we believe, happened in the London the result. This caution is wise, and it Hospital, within only a very recent period. would have been well had it been more At Guy's, at St. Thomas's, at St. Bartholooften exercised by recorders of the results mew's several cases have also occurred. At of trials of potent drugs. Recoveries from St. Mark's (for diseases of the rectum), there tetanus are very rare-a man sees but one have been four fatal cases, in which the disor two in a lifetime, and he is naturally very ease followed the ordinary operation of likely to be led to believe that the powerful tying piles. An interesting case (traumatic) narcotic which in all probability had been is still under Mr. Simon's care in St. pushed, in that instance, really exercised Thomas's, in which recovery has ensued. most important influence on the result. It Of this we hope before long to bring the is the business of the journalist to endeavour details before the notice of our readers. to enlarge the limits of individual experience, Nicotine was, we are informed, the princiand we have just now an interesting exam- pal remedy used. A third case, in which ple of our remarks at hand. Cases (single recovery has taken place, is under care in ones) of recovery from tetanus are at pre- Guy's .- Med. Times and Gaz., June 19,

in St. Thomas's pushed nicotine to the full the Carotid Trunk by the Pressure of a extent; whilst in the one treated in the Nasal Polypus .- A pale, emaciated man, London ether inhalation, stimulants and rather past middle age, was admitted, under opium were, we believe, the successful Mr. Smon's care, into St. Thomas's on drugs. To these we might add a fourth, account of profuse bleeding from the nose. which about a year ago recovered under the He was partially deaf. The left eye squinted care of Mr. Smith in the Leeds Infirmary, inwards, and the right was totally blind, and after having swallowed pints of laudanum, had been so for some weeks. It appeared and a fifth which occurred rather longer ago, that so long as thirty years ago he had been in the Sheffield Infirmary, when chloroform under surgical treatment on account of a inhalation was at any rate the ante hoc of polypus in the nostril. Many attempts had the happy result. All these were, of course, from time to time been made to extract the instances of traumstic tetanus, and ap growth, but had never been wholly success-proached pretty closely to its acute form. Its. He was much reduced by loss of blood Cures of chronic and of the so-called idio- at the time of his admission, and a few days pathic tetanus are not so rare. It is evi- afterwards had an epileptiform seizure, dent that it would be a mistake to attribute which left him with incomplete hemiplegia to any one of the remedies employed in the of the left side. Ten days later another fit above cases special potency against tetanic occurred, and death, in coma, followed thirteen hours afterwards. At the autopsy a Whilst on this subject, we cannot but ad- very interesting and most unusual condition attention which is paid to securing the absordand the brain substance generally was much wards. Surely a dark room, free from noise cause of these was found in the entire ob-

vernous sinus, its coats being inseparably; forwards as their mesenteric attachment blended with the dura mater and old inflam- will permit, while in the case of an overian matory material. The sphenoidal sinus cyst, they are pushed over to the healthy was occupied by a mucous polypus. There side. It is not easy to conceive any condiwas not the least reason to consider the tion of things, excepting entire exclusion of polypus of malignant nature, it being evi- air from the whole tract of intestines, which dently of the ordinary fibrous kind. There could diminish the trustworthiness of this were no secondary growthe in any part of symptom. It indicates also, with unfailing the body .- Med. Times and Gas., June 19, accuracy, on which side the ovarian cyst.

Differential Diagnosis of Ovarian Dropsy and Ascites .- No fewer than four cases have recently come under our notice in which patients suffering from ovarian dropsy had been subjected to prolonged diuretic and mercurial medication, in the belief that the disease was hepatic ascites. In one case, a short time ago, in a large metropolitan hospital, the reverse mistake was made, and the peritoneal cavity injected with iodine, in the hope of obliterating an ovarian cyst, which, as the autopsy a few days afterwards proved, did not exist. Rumour states that one or two other accidents of the same kind have occurred since the iodine-injection plan came into vogue, but we are not in a position to substantiate them. Facts like these prove that the differential diagnosis between these two affections is either not so generally understood as it ought to be, or else that it is a matter metallic ligatures to secure and tie the bloodof extreme difficulty. Now, there is one vessels laid open in the sides and depths of sign which hitherto we have never found wounds made in the course of surgical opeto fail, but which is, we believe, as compared rations and injuries, is a matter of as great, with its value, but little known. In more if not greater, moment than the use of than one work on the diseases of women metallic sutures to close the outer lips of we find no mention of this symptom, al- such wounds. In order, however, to exthough in extreme cases it is the only one plain the advantages which will, as it apwhich is available. The sign referred to is pears to me, probably be derived from mepercussion of the lumbo-lateral region. If tallic ligatures in surgery, it is necessary in a case of ascites in which the distension to consider, in the first instance, the advanis so great that the hydrostatic line of level tages obtained by the employment of mein front is not changed by posture-and it tallic sutures. And in doing so, I shall must be remembered that only in ovarian take leave to premise a few remarks on the cases in which the cyst is so large as to materials out of which surgical threads simulate this extreme condition ought any have hitherto been generally made; and on difficulty to occur-if, in such a case, the the past history of metallic threads and patient be made to sit up in bed, and the sutures in surgery. loins be percussed, it will be found that the | Modern and Ancient Suture-threads; note is the same (usually dull) on both their Material .- Among modern surgeons sides. If an ovarian case, no matter how silk is the material most generally employed great the distension, be treated in the for forming the threads which they use, same way, one loin will be found to be both to stitch together the lips of wounds, clear, and the other quite dull. The and as ligatures for the deligation of the explanation is obvious; in ascites the mouths of the bloodyessels cut across by

if it exist, has originated .- Med. Times and Gaz., June 5, 1858.

MEMOIR.

On the Use of Metallic Sutures and Metallic Ligatures in Surgical Wounds and Operations .- By J. Y. SIMPSON, M. D., Professor of Medicine and Midwifery in the University of Edinburgh, &c.

Part I. Metallic and other Threads in Surgery; their History .- The attention of the profession, particularly in America, has of late been strongly called to the value of metallic autures, instead of organic autures of silk, flax, etc., in stitching wounds. Taking, in the mean time, as granted, the advantages claimed for metallic sutures, on the score of being less irritating material than threads composed of animal or vegetable substance, I herewith venture on the same grounds to suggest, that the use of

air-containing coils of gut float as far the course of the knife. Some surgeons,

table kingdoms have been at various times (surgical sutures eight or nine hundred years ligatures, such as silkworm-gut; cargut; wool: inkle: hairs: strips of leather, of parchment, and of buckskin; strings of tendon and of nerves; lines of isinglass; caoutchoue; cotton, &c.

In olden surgery threads of flax, hemp, and latterly of silk, seem to have been most commonly employed for sutures. Some forms, however, of surgical threads that are supposed to have been first proposed in modern times were not unknown in ancient times. For instance, there has been some discussion as to who first proposed surgical threads made of animal materials. Cargut was publicly suggested as a proper substance for sutures and ligatures in 1813 by the learned Dr. Thomas Young; and it has been doubted and questioned whether the proposal to use animal ligatures was or was not made earlier in America by Dr. Physick of Philadelphia. But in all pro-

however, prefer for these two purposes | bability catgut, the form of animal thread threads made of flax or hemp. Various or ligature that has been most frequently other materials from the animal and vege- tried in modern practice, was employed in suggested and tried as surgical threads and ago. The celebrated Arabic writer Rhazes, who practised at Bagdad about A. D. 900. speaks of stitching up wounds of the abdomen with a thread made of the string of the lute or harp (" corda listti vel cithare"). And another Arabian author, Albucasis, who lived a century or two later, alludes in the same class of wounds to stitching a wounded bowel with a fine thread made of the twisted intestine of an animal. " file subtili, quod abstersum est ex intestino animalis annexo."

Uses of Metallic Threads in Olden Surgery .- Metallic threads have been used for various purposes in surgery from the earliest historical periods; but not as sutures for wounds, or ligatures for vessels. They have been employed, for example, in surgical practice for the following objects:-

1. In adjusting fractures of the lower jaw, Hippocrates, among other more important directions, advises that, after the broken ends of the bone are placed in apposition, the teeth on either side of the wound

Physick of Philadelphia. But in all pro
1 Few or none of the ancient medical authors speak explicitly as to the material of which their surgical threads were composed. In one passage Gales incidentally alludes to suture threads being made of lint or wool. (Kuha's Gales, vol. xviii. B., 752; or De Med. Of. II. 10.) Paulus Æginets mentions threads of wool for attiching wounds of the abdomes. (Dr. Adams' Translation, vol. ii., 260.) Fabricius Hildanus recommends the vessels in amputation to be tied, when deligation is used, with a hempen thread, "file cannabino;" and he further speaks of sewing the edges of the wound together with silk, "file equali ac levi quale est sericum." (Opera, pp. 814, 816.) Severinus advises his followers to use for wounds aleader suture thread of cleaned cotton, "funiculum teaseum e gossypio mundo." (De Efficact Chirurgise, cap. cuxii.) Fallopius in his treatise on wounds makes the following observations on the best threads for atture: "Filum autom sirobustum, sed non nimis crassum nee durum. Tertic alt sequale, its ut praster sequalitatem non abeat nodes interpositos, nee sit putreactibile, quare file as gossypio, vol lana non sunt opportuna. Galenus autem (Ilb 5, Meth. Cap. ult.) affectebat filum molle ac saits durum, unde discebat ipse filum Cacianum optimum esse; vel loos ejus utobatur sericino; quare filum lineum sit vel sericina materia, qua titdem optima est. Filum prateres att album, vel cronesinum tantum, als grum enim vel allo colore infectum malum est." (Opera, tom. ii. p. 177.)

See Dr. Young's Introduction to Medical and Surgical Journal for 1818, vol. xv. p. 165, Dr. Young sistes that he proposed catgut ligatures to several surgical friends "ten years before," or in 1808.

*Reese and Jamieson's American edition of Cooper's "Surgical Dictionarx". Article. "Higs.

ture." "To our distinguished countryman, Professor Physick, of the University of Pennsylvania, is undoubtedly due the honour of having first introduced in 1814, what is known as the animal ligature into surgical practice. His ligatures are made of chamois leather."

4 Continens Rasis, lib. xxviii. p. 344, of Venice

Literature, 1813. "I have often (asy Dr. Young) of manufacture, are referred to in Exodus (chap. wished to try ligatures of catgut which might be "xxix.3". "Silver wire was," according to Sir absorbed," p. 448. In the Edinburgh Medical Gardiner Wilkinson, "known in Egypt about 3300 and Surgical Journal for 1818, vol. xv. p. 166, Dr., Years ago, being found at Thebes of the third Young states that he proposed catgut ligatures to sveral surgical friends "ten years before," or in 1808.

**Reese and Jamieson's American edition of Gooper's "Surgical Dictionary," article, "Liga-tians, vol. ii. p. 82.)

should, if they be disturbed and loosened, practitioner of the last century, substituted be tied together, two or more of them, with a gold thread. Paulus Ægineta, and after him various Arabic authors, recommends a thread of gold to be applied in the same manner for the same injury; and Wallners has in modern times, for the same purpose, bound a silver thread around the front teeth in central fractures of the lower

2. In attempting the radical cure of inguinal hernia, some surgeons of the middle ages, as Bernard Memis, Franco. Fallopius, Ambrose Pare, etc., applied what they termed the "golden stitch," the "golden tie," (or "punctum aureum,") to the neck of the hernial sac, surrounding and constricting it, with the exclusion of the spermatic vessels and cord, by a golden thread, after it was cut down upon, and the bowels returned out of it into the abdominal cavity. This golden thread was left permanently in situ around the neck of the sac, sometimes with, as described by Fallopius, a slim defensive gold ring or crescent around the cord (circulum seu semicirculum ex auro non valde crassum), and the cutaneous textures healed over all. Besides applying a permanent gold thread or wire for the cure of hernia. Parè speaks of occasionally using, for the same purpose, a temporary wire or thread of lead.

3. One mode of treatment long pursued in the management of fistula in ano consisted in passing a flaxen thread or ligature through the fistula and bowel, and gradually cutting through the intervening tissues, by the constriction and pressure of the ligature. This operation is described at length in one of the essays usually included among the Hippocratic writings.8 Foubert, a French a metallic or leaden thread for the flax thread formerly employed in this operation.9 The practice of dividing the structures placed between the bowel and the tract of the fistula with a ligature of lead was, with various modifications, subsequently adopted by Bosquet, Desault, Sabatier, and other continental surgeons.

4. From an early period in surgery polypi have been removed by cords or ligatures applied and tightened around their pedicles. 10 In the sixteenth century, Gabriel Fallopius recommended a thread or wire of brass, steel, or iron, like that used in harpsichords (filum aeneum, vel chalybeatum satis crassum, vel ferreum, ex quo arpicorda constituentur), introduced through a silver canula, as the best ligature for the purpose of strangling the base of nasal polypi;" and a century ago, Levret12 called the attention of the profession to the advantages of removing uterine and other polypi by the constriction of a silver wire, introduced through a double silver canula. Both of these forms of metallic ligature have been adopted by various followers.

Use of Metallic Pins for Sutures .- In the preceding instances the metallic wires or threads were not used as suture threads, to unite the edges and walls of wounds in the soft parts. And when first metals were used for this last purpose, they were employed in the form of fixed bodies, and not as flexible threads. For when the ancient surgeons kept the lips of some of their

¹ Adams' edition of the works of Hippocrates,

p. 594.

2 Adams' edition of the works of Paulus Æginets, vol. ii. p. 445.
South's edition of Chelius' Surgery, vol. i. p.

^{**}Source Source Charliac's Chirurgia Magna, tr. 1811 d. 3, cap. 7.

* Traité des Hernies, pp. 59, 60.

* Opera Omnis, tom. il. p. 313.

* English edition of Pare's works, p. 300. Pare's account is accompanied with sketches of three account is accompanied with sketches of three account is accompanied with sketches of three accounts in the "nune-English edition of Pare's works, p. 309. Pare's the account is accompaided with sketches of three Petr instruments required for performing the "punction anreum." He figures—I, a crooked needle, like the modern aneurlam-needle, "with the golden wyre put through the eye" of it; 2, multists or pincers to twist the star or pincers to rwist the wire; and 3, multists or pincers to twist the ends of the wire in the pincers to twist the sunds of the wire logather. These instruments very precisely resemble some of those proposed to be the used in applying metallic sutarests in modern times.

*Adams' edition of Hippocrates' works, p. 817. 482.

Bee Leblanc's Précis d'Operations, vol. 1. p. 97.
Some ancient authors recommend the ligature to be pulled alternately at either extremity, or used with a sawing motion, like that used in working the ecraseur of M. Chassaignae in the removal of polypi and other paris. Rhazes indeed advises the ligature thrown around the base of the polypus to have knots placed upon it at short distances that the surgeon may thus exert with it a greater sawing power. (Divisio morborum, cap. xili. p. f. 62.) Other Arabian authors, as Atbucasis and Avicenna describe the same operation of sawing through the stalks of polypi rum, cap. kin. p. r. oz. other ausas analysis as Albucasis and Avicenna describe the same operation of sawing through the stalks of polypic with knotted threads. Mesur eccommends for the purpose a ligature made of several horse-hairs tied together with knots. (Adams' Paulus Ægitanta, vol. it. p. 281.) In the thirteenth century, the Italian Eurgeon, Bruno, the reputed friend of Potrarch, orders these sawing knots to be placed upon the ligatures at about the distance of a finger breadth from each other; and whenever the root of a masal polypus is very deep he recommends the extremities of the knotted ligature to be pulled alternately till the polypus is detached. (Chirurgis Magna et Parva, lib. li. c. 12.)

40 Opera commis, tom. it. p. 298, where a figure of the canula and loop of thread is given.

42 Sur la Cure Radicale de Plusieurs Polypes, p. 462.

wounds united for the requisite time by the threads in practice, was the late Professor metallic pins of their surgical fibulæ, and Dieffenbach of Berlin. In a paper on when, in later times, the metallic needle of Staphyloraphy published in 1826, he has steel, bronze, silver, or gold was left in for a few days for the same purpose, in the well-known form of the twisted suture in hare-lip, etc., the material of the suture was so far essentially metallic,

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Uses of Metallic Threads for Sutures .-The idea itself of employing metallic threads for surgical sutures is not entirely modern, however much the practice may be deemed so. In his learned dissertation on the "Acia" of Celsus, John Rhodius alludes to many different forms of thread, as the filum "lineum, laneum, sericum, xylinum, aureum, argenteum, ferreum, plumbeum." After speaking of the employment of gold and iron threads in the industrial arts, he alludes to the question of these two metallic threads being capable of use in surgical sutures; and evidently without ever having tried them, he condemns them as unfit for such a purpose. "Alterutrum certe subtile admodum continendis vulnerum oris sine evidenti doloris molestia viz conferre potuit."-P. 192.

During last century, however, metallic sutures appear to have been used, in some isolated examples, by one or two surgeons. Thus, Purmann, "Chief Chirurgeon to the City of Breslau, in Germany," as he is styled on the title page of the English edition of his "Chirurgia Curiosa," used, with alleged great advantage, metallic sutures in wounds of the tongue. The metallic sutures which he employed consisted of what has been specially recommended in modern times, viz., silver threads or silver wire.2 Needles of gold and silver were long preferred by most surgeons in applying the twisted suture for the cure of hare-lip. In his Elements of Surgery, published in 1746. Mr. Mihles speaks of employing silver and gold threads in the operation for harelip instead of pins, and figures a needle fitted to draw these metallic threads through the sides of the cleft lip."

The first surgeon in our own times who appears to have actually used metallic detailed several instances of that operation. in which he used leaden thread to unite and keep united the sides of the divided palate. He preferred for this purpose threads of lead to threads of silk, as he found the ends of the leaden thread could be made by mere twisting of their elongated extremities, to bring into contact the raw sides of the wound more easily than could be effected by attempting to tie and knot the ends of silk threads, by introducing the fingers so deeply within the cavity of the mouth.4 "The difficulty," says Professor Ferguson,5 "of keeping the first noose steady has often been alluded to; the lead ligatures, by being twisted together, obviate this difficulty." The metallic suture in staphyloraphy has been alluded to by many later surgical writers (and modified by some), as, for example, by Mr. Liston in 1831,6 Velpeau, Pancoast, etc.

Metallic sutures have been adopted in

⁴ In the Lencet for 1832, vol. xi. p. 405, in a detailed account of Professor Dieffanbach's operation for Staphyloraphy, it is stated that—"The principal difference in Dieffanbach's mode of procedure from those recommended by Graefe, Reux, Sonchet, Joussellin, and Alocek, consists in the substitution of a finely-drawn lead wire for the ordinary ligatures. It is necessary that the lead should be as pure as possible; the wire needs only be a little larger than a stout pln; and if used when recently drawn, it will be found just as yielding as a waxed thread. The needles having been unscrewed or out off, the extremities of the ligature are then twisted once or twice slightly round and put on one side of the month until the other ligatures are introduced. It is then recommended to commence to close the edges of the valum, by twisting with a forceps the ends of the anterior ligature carefully around each other until the edges of the wound are brought into contact. The twisted wires are to be ent off within about a quarter of an inch of the palate, and turned forward upon the roof of the mouth. This second ligature is to be managed in the same manner, and so the third, or as many as there may be, should the inflammation be so violent as to cause great tumefaction of the paris, the ligatures may be untwisted to the necessary variant to re-Should the inflammation be so violent as to cause great tumefaction of the paris, the ligatures may be untwisted to the necessary extent to relieve the tension, without altogether setting the edges free, and the wise may be again twisted, tighter when the inflammation subsides. To remove these ligatures it is only necessary to cut the wire on either side above the twisted part when the whole ligature may be easily brought away by a little lateral motion.

* Observations on Cleft Palate, and on Staphyloraphy in the Medico-Chirurgical Transactions, vol. xxviii. p. 295.

* Elements of Surgery, Part II. p. 193; "A ligation of the property of the prop

vol. xxviii. p. 295.

* Elements of Surgery, Part II. p. 193: "A ligature either of thread or of pender wire can thus be conveyed at once; if the latter is employed, it is secured by twisting, and the ende cut off by pliers."

* Medicine Operators, 1832, tom. ii. pp. 96, 97.

* Treatise on Operative Surgery, 1844, p. 261.

⁴ De Acis dissertatio, ad C. Calsi mentem, etc. Copenhagen edition of 1672, p. 194.

See his Surgery, Part I. chap. 6: referred to by Heister in his System of Surgery. London edition of 1737, p. 92. "Purman affirms Cobserves Heister) that he made use of sifteer threads in sutures upon this part of the tongue to great advantage."—P. 92.

**Elements of Surgery, p. 277.

other plastic operations besides that of But in America the subject of metallic staphyloraphy. Goeset stitched together ligatures has met with more attention than the sides of a vesico-vaginal fistula with in Europe. In 1832, Dr. J. P. Mettauer. gold wire, the gold threads being left in for of Virginia, employed them with perfect twenty-one days. In his Practical Essays success in operating in a very aggravated on Plastic Surgery, Mr. Spencer Wells case of laceration of the perineum and rec. observes: "The lead suture is sometimes (tum, produced, the year previously, by a useful in deep operations. A piece of soft tedious labour. The laceration extended lead wire is armed at both ends with a as high as three inches upwards, along the short needle. These are passed, by means anterior wall of the rectum. After suffiof forceps on a needle-holder, from within {ciently removing and denuding the hardened outwards, and the needles removed. The edges of the lacerated cleft, and the parts ends of the lead wire are twisted together exterior to them, Dr. Mettauer stitched until the wound is brought into apposition. {carefully together the abraded surfaces with They are then cut off. This is the easiest ligatures of lead wire. "As the ligatures suture to apply in cases of vesico-vaginal were applied they were tightened, so as to fistula when deep-seated. The only objec- bring the abraded surfaces in contact; and tion to its use is the necessity for protecting then their ends were twisted together, and surrounding parts from irritation caused by cut off of convenient length. About twelve the ends of the wire."

platinum wire as a suture-thread has thus greatly strengthen the union in this part" been "auccessfully employed at Guy's (p. 114). The bowels were constipated Hospital by Mr. Morgan." One of Mr. for four days. The leaden suture threads Surgery, published in 1851, when speaking ing his account, Dr. Mettauer observes, of the treatment of common surgical wounds "leaden ligatures were preferred in the by the interrupted auture, observe that management of the foregoing case, as exis the ligature generally used; but platinum drawn than any other material with which however, it is rarely necessary or right to {venient and effective in maintaining a unileave the sutures longer in the wound than form and perfect apposition by the ready forty-eight hours, I think (Mr. Cooper facility of simply twisting them, and a adds) it signifies little whether platinum proof that the leaden ligature may act forciwire or silk be employed." Again, Mr. bly for a long time without cutting out. Guthrie, when describing the treatment of When they were removed in the present wounds left by amputation, directs that instance, it could not be perceived that any "the common integuments of the stump material encroachment had been made upon should be drawn together in primary amputations by sutures formed of flexible leaden not obtainable."4

ligatures were required to close the wound. The use of metallic threads has been From time to time the ligatures were extended by some European surgeons to tightened by twisting them, and the vaginal the stitching of common surgical wounds. margins of the laceration cauterized with In the British and Foreign Medical Review initrate of silver to favour the formation of for April, 1846, p. 286, it is stated that granulations, which it was judged would Morgan's colleagues at that Hospital, the were not removed till six weeks, "the late Mr. Bransby Cooper, in his Lectures on [parts having united perfectly." In concludthis, "the interrupted auture, is the one perience had proven them, not only less most frequently used by surgeons, and silk irritating and liable to cut out when tightly wire is preferred by some surgeons. As, {I am acquainted, but infinitely more con-

Four years after recording his first case wire; by threads of silk, if leaden wire are in the American Journal of Medical Sciences, Dr. Mettauer reported six additional instances in which he had operated for extensive lacerations of the perineum. "In all of those cases," he states, "the recto-

the margins of the cleft" (p. 115).

¹ See Dieffenbach's Operative Chirurgie (1845),

vol. 1. p. 577.

Medical Times and Gas. for 1854, vol. ii. p. 109.

Lectures on the Principles and Practice of

Surgery p. 54.

* See Mr. Guthrie's Lectures on the more important points of Surgery in the Lancet for June 13, 1863, p. 565; and his Commentaries on the Surgery of the War in Portugal, etc., 5th edition, 1853, p. 72.

A case of ununited Parturient Laceration of the Recto-Vaginal Septum, successfully treated with Metallic Ligatures. By John P. Mettaner, M. D., of Prince Edward County, Virginia; in the American Journal of Medical Sciences for 1833, vol. xtill. p. 113.

vaginal wall was completely divided, so as was permanently retained in the bladder. seventh case, the wound partially tore open some weeks subsequently under the distenindurated mass of feces, causing intense Dr. Mettauer used the leaden thread as a to twelve days after its insertion; and leaving the extremities of the wire longer than at first, in order that they might be more readily seized and tightened by an additional twist or two, if they offered to become loose during the first few days following the operation.

In concluding this contribution, Dr. Mettauer observes : "My experience leads me to believe that every case of the afflictive accident is completely remediable. I decidedly prefer the metallic suture in the treatment of this infirmity. With it we are enabled to close and confine the denuded certainty than with the silken or thread suture. And should the least gaping of the wound take place, a few twists of the free up again. The leaden suture, too, does not cut out as soon as silk or thread."

In the same year (1847) in which he published this second essay, on the cure of lacerated perineum with metallic sutures, Dr. Mettauer published an account of some cases of vesico-vaginal fistula which he had treated on similar principles. In his first case the opening in the back wall of the bladder was "fully the size of a Spanish milled dollar, and nearly circular." Ita edges were denuded and brought together contact of the opposing surfaces measured displaying (to adopt his own words) "all two inches. A short, light, silver catheter

to convert the two passages bounded by it On the third day the wires were tightened, into one." Six of the operations were and again on the seventh. On the thirattended with complete success. In the teenth day the ligatures were removed, and perfect union was found to have taken place along the whole line of contact. The cure sion produced by the passage of "a large was complete, and the woman bore two children subsequently without any return suffering;" and the patient had not yet of the accident. Dr. Mettaner operated in submitted to a second operation for her five other cases of vesico-vaginal fistula, cure. In all the cases in which he operated, but not always with the same success. In his second case the fistulous opening was suture; cutting it out, however, earlier than diminished, but not obliterated, after eight. in his first case, or apparently from eight operations. In two of the six cases Dr. Mettauer employed thread sutures, but he did not "find them to answer so well as the metallic." His results, however, on the whole, were so favourable as to induce him to conclude with the strong allegation, "I am decidedly of opinion that every case of vesico-vaginal fistula can be cured, and my success justifies the statement."

Dr. Marion Sims, formerly of Montgomery, Alabama, now of New York, published in 1852 an essay on "The Treatment of Vesico-Vaginal Fistula," describing his mode of operating, and his specialties of management in this class of affections. margin of the fissure with more case and In this essay Dr. Sime, among other suggestions, recommended the lips of the fistula, after they were refreshed by the surgeon's knife, to be held together by ends of the wires will enable us to close it threads of silver wire used as a suture. Latterly a "Woman's Hospital" has been established in New York, principally for the treatment of fistulæ and other injuries resulting from parturition, and Dr. Sims has, as surgeon to that institution, had ample means of proving the valuable and happy results of his treatment. His great and acknowledged success in the cure of urino-vaginal fistulæ, and their allied lesions, he himself attributes principally and essentially to the employment of sutures of slender silver wire instead of sutures of with eight leaden sutures; and after the ex-{ silk, etc. At the last anniversary meeting tremities of these sutures were twisted of the New York Academy of Medicine. and tightened, the opening was perfectly Dr. Sims read, and has lately published, a close in every part of it, and the line of discourse upon the use of "silver sutures."

[&]quot;I will only," Dr. Mettauer again observes, "remark that the lacerations were extensive, none less than two inches and a-half in length." American Journal of Medical Sciences for April 1847, p. 314.
"The American Journal of Medical Sciences for

⁹ American Journal of Medical Sciences for 1852, p. 50. or Braithwaite's Retrospect of Medicine for 1852, vol. xxvi. p. 341; or Banking's Half-Yearly Abstract of the Medical Sciences for 1863, vol. xv.

Appetract or the Medical Sciences for 1857, vol. xv. p. 231.

Sliver Sutures in Surgery: the Anniversary Discourse before the New York Academy of Medicine. By J. Marion Sims, M. D. New York. 1858.

the ardour and enthusiasm of a devotee." rations for vesico-vaginal fistula, and its In this discourse he proposes to extend- congeneric affections, were often attended and relates, indeed, various cases, showing with risk to life, while a cure was a mere that he had in his own practice extended- accident. But how is it new? Why, the use of silver autures from vesico-vaginal every case is easily and pefectly curable fistule to all the common wounds and ope- that has tissue enough to render any operarations of surgery. Speaking of silver ration whatever practicable; while a failure wire as a suture he remarks: "From the is the exception to the rule. Besides, there day its wonderful effects were witnessed in is not the least risk to life, as there is never vesice-vaginal fistule in 1849, I have never any fever, or the slightest constitutional used any other suture in any department of disturbance. I am not claiming too much surgery" (p. 32); and "I declare it (he for this surure when I say, that the same elsewhere observes) as my honest and heart- relative results must be attained in all other felt conviction that the use of silver as a surgical operations requiring sutures, if the suture is the great surgical achievement of same method be adopted. My language is

surgical dressings, and to insure more beau- 44 to 46. tiful and prompt cures. With it, properly applied, there can be no gaping wounds to heal by the suppurating process, where there is skin enough to cover a stump; and in many cases erysipelatous inflammation, and even hospital gangrene, may be averted by substituting it for silk as a suture. After all amputations we must use sutures of some sort; and how often do we see silk ulcerating out, and creating such tendency to suppuration, that we are compelled to remove them before there is sufficient union to resist the retraction of the tumefied flaps. But with silver there is no inflammation, no suppuration, no cutting out of sutures, no gaping or retraction of flaps, and therefore no necessity for disturbing the dressing till all is firmly united and permanently well. This," Dr. Sims adds, "is no vain imagining; though enthusiastic, I am not wildly so, for all this has been familiar to me for the last eight years, and I but speak what I know. The next eight years will not find an educated physician anywhere who will dare to use silk sutures, for the silver-thread will now become as from which he has just been displaced, has essential to the dressing case, as the needle been the subject of comment abroad. itself; and if I may be allowed to venture a prediction, I will say that fifty years hence June last departs from its habitual reserve the statistics of our hospitals will show a in order to notice it. Our readers may be vast improvement in their bills of mortality curious to know what is thought of this case after great operations, and this improve- in the capital of the medical world, and we ment will be due mainly to the use of silver therefore translate some of the remarks of as a suture. Look at its results in injuries the above named journal.

the nineteenth century" (p. 8). | nowise extravagant; and I shall yet live to Dr. Sims further indulges in the following see the day, when the whole profession of enthusiastic and prophetic remarks regard- the civilized world will accord to this simple ing the value of the silver suture and its discovery the high position of being the "universal applicability in general sur- most important contribution as yet made to gery." "It is (he says) to revolutionize the surgery of the present century."-Pp.

The very earnest and unusual terms in which Dr. Sims thus describes the advantages of silver sutures, indicates at least a profound and intense conviction on his part of their great and unqualified superiority over sutures of silk and common thread. In the next part we shall endeavour to inquire into the truth and value of this opinion regarding metallic, as compared with organic threads .- Med. Times and Gaz., June 5, 1858.

MEDICAL NEWS.

DOMESTIC INTELLIGENCE.

Blockley Almshouse .- At a meeting of the managers of this institution, held on the 5th of July, Dr. Robt. K. Smith was elected Chief Resident Physician, in place of Dr. McClintock.

The action of the profession in Philadelphia in regard to the appointment last year of the last-named individual to the position

The Archives Générales de Médecine for

the vagina. Before this discovery, ope- '"Certainly," exclaims the editor, "we

should hardly have looked for an example of medical discipline in America with its boundless liberty, its physicians furnished with diplomee which secures them a right to practice without any special responsibility, and above all its doctresses. Yet a recent occurrence at Philadelphia has manifested the strength of a free and voluntary association of physicians wholly unsupported by the sanction of law." After presenting a clear and succinct account of the measures adopted by the medical bodies of this city, the editor remarks that the grounds of their action were not in law nor statutory regulation, but entirely in that moral sense which makes public opinion strong; and, he adds "we have placed these facts on record because they do honour to our American brethren, and because they prove that if deliberative bodies wish to inspire respect, they are sufficient in themselves to command it without extraneous aid."

Prizes of the Massachusetts Medical Society.-The Massachusetts Medical Society is authorized, by a donation from one of its members, to offer the sum of one hundred dollars for the best dissertation adjudged worthy of a prize on the following theme, viz: "To what affections of the lungs does bronchitis give origin t" The above is open to physicians of every country. The latest article on the relations of bronchitis to other diseases of the lungs was written by Dr. W. T. Gairdner, of Edinburgh, in 1850. A review of the paper can be found in the British and Foreign Medico-Chirurgical Review for April, 1852. Each dissertation should be designated by a motto, and accompanied by an envelope, superscribed with the motto, and containing the writer's name and address. The sealed packet accompanying the successful dissertation will be broken and the author's name announced at the annual meeting of the Society in May, 1859.

Dissertations for the above prize must be sent (post paid) to the Corresponding Secretary, Dr. Benj. E. Cotting, Roxbury, Mass. on or before April 15th, 1859.

New Orleans School of Medicine .- Dr. AUSTIN FLINT has been appointed Professor of Clinical Medicine and Auscultation and most valuable acquisition.

Iowa State University.-The number of matriculants at the session 1857-58, was 75. Number of graduates in 1858, 20.

New Medical Journals.-We have received four new journals within a very short period. The first is the Savannah Journal of Medicine, edited by Drs. Sullivan, Harris, and Arnold. The second, the Oglethorpe Medical and Surgical Journal, edited by Drs. Byrd and Steele, also published in Savannah, Geo. The third is the Maine Medical and Surgical Reporter, edited by Drs. Richardson and Cummings, published at Portland. The fourth, Belmont Medical Journal, edited by Dr. Afflick, and published at Bridgeport, Ohio.

FOREIGN INTELLIGENCE.

Recent Death from Chloroform. - Dr. FOUCART furnishes the following particulars of the recent instance of death from chloroform, which took place at the Gros-Caillou Military Hospital. The patient was a grenadier of medium height, 45 years of age, of an apparently good constitution, though having a worn appearance. Having a swelling of the right testis, which was believed to be cancerous, M. Ceccaldi proceeded, on the morning of the 21st of May, to operate upon him, in the presence of several of the medical officers of the hospital. The soldier evinced but little emotion, and having been placed on the table, the inhalation of chloroform was commenced. This was conducted by the aide-major De Poter with great care and circumspection, the only apparatus employed consisting in a compress formed into the shape of a cone, and containing a little charple, upon which the chloroform was poured. At first, all seemed to be going on well. There was no agitation or disordered muscular action, or indeed anything that indicated aught amine, and the respiration was perfectly calm. At the end of two minutes some trials were made of the amount of insensibility, and the anæsthesia being found insufficient, the inhalations were continued, the apparatus being held as before to the nostrils of the patient. Suddenly, and without any circumstance having indicated what was about Percussion in this school. He will be a to follow, the patient sat upright, with haggard eyes and pupils frightfully dilated. His arms were stretched out, and the muscles} powerfully contracted, while his countenance The Committee of the Academy of Sciences expressed the agony of a man who was of Paris (consisting of MM. Andral, Velsuffocating, and sought the air. He then fell back on the table, heaved a last sigh and was motionless, being, in fact, quite dead. From two and a half to three minutes had at most elapsed since the commencement of the inbalation, and M. Ceccaldi had only just applied the bistoury to the skin in order to commence the operation. Various means were put into force for the restoration of the patient, such as revulsives, tickling the glottis, præcordial frictions, the application of incandescent coals to the thorax, and artificial respiration, first by pressure of the thorax, and then by mouth to mouth. All was in vain.

At the autopsy the brain was found healthy, and not engorged. Both lungs were highly loaded, and their tissue, and especially that of the right lung, was the seat of numerous miliary tubercles. At the summit of the right lung a vast cavity was also found. The condition of the heart is not mentioned. The right testis was found converted into a tuberculous mass.

Remarking upon this case, M. Foucart observes, that it possesses several points of interest. First, it proves by an additional example the exactness of the law laid down by Louis, of the frequency of the presence of tubercles in the lungs, when another important organ is the seat of a tubercular affection-a law, however, which yet exhibits exceptions, and especially so with regard to tubercle of the testis. Next, the case establishes a positive contraindication of the employment of chloroform in patients suffering from pulmonary tubercles, or in those in whom there is good ground for suspecting their presence. The incomplete manner in which hematosis is accomplished in a lung so changed, easily explains the a cause which ordinarily would be insufficient for so rapid a production of it. Lastly, it is of importance to observe, that up to the moment of the accident, which occurred instantaneously, there was not the slightest disturbance of the respiration, this having been always perfectly tranquil. The patient continued to breathe to the last, and his Times and Gaz., July 3, 1858, from Gaz. keeping rigorously within the limits accesdes Hôpitaux, No. 69.

Report on the Breant Prize Conceurs .peau, Cloquet, Claude Bernard, and Jobert. with M. Serres as reporter) has just delivered in an elaborate report upon the essays forwarded to compete for the Breant prize.

In instituting a prize of 100,000 france to be decreed to the discoverer of a sovereign remedy for the cholera, M. Bréant, the reporter observes, had in view appealing to the efforts of physicians and philosophers concerning the most terrible epidemic that ravages the human race. Although unacquainted with medical science, his dominant idea evidently was to induce additional investigation into the causes of epidemics in general, and of cholera in particular. He believed that in the present state of science much remained to be discovered in the composition of the air, and the fluids it contains, as well as concerning the animalcule which, according to him, are dispersed in infinite numbers throughout the atmosphere, and may prove to be the cause, or one of the causes of this cruel disease.

The Section of Medicine and Surgery has believed it necessary to define the terms of the question with some precision, in the present state of medical science. In medicine, in fact, as in the other natural sciences, we only know facts, which we assemble together, in order to judge of their relations, and to submit them to classification. By this procedure we rise to a still more general class of facts, which we term principles. But these principles are themselves but the formulæ of the facts, they are not causes. It is from having long misunderstood this mental process and the limits of its extent, that our science has become plunged into the labyrinth of the study of the immediate causes of disease, striking out new routes, which seemed to promise an issue, but which production of asphyxia by the influence of always finished by bringing us back to the point whence we started.

The Section of Medicine and Surgery has already pointed out to the Academy that the tendency of the Breant prize was to lead medicine back to the search for the occult causes of disease-a search that had already impressed a direction so systematically mischievous upon science, until the flame of death was not preceded by the slightest | observation and experience came to enlightsyncope. We have no account of the state en its progress and to circumscribe the space of his pulse during the inhalation .- Med. within which it must operate. Nevertheless,

sible to observation, physicians have not the therapeutical management of epidemical lost sight of the investigations of Van Helmont and Stahl upon this subject; and in imitation of the latter, and of our own illustrious Lavoisier, they have pursued with great interest physical and chemical investigations on the composition of the air, in order to make application of any discoveries to the recognition and cure of epidemic diseases. While rejecting the ideas of Needham on spontaneous generation, they still pursue studies having for their object the acquisition of a knowledge of the animalculæ and all other organic matters contained in the atmosphere, which can exert any influence on the living economy. It is in this spirit the Section has endeavoured to fulfil the duty imposed upon it by the Academy, fully recognizing that the discoveries sought for with such excellent intentions by the testator, are of an extreme difficulty, and consequently will have to wait for a remote realization. It is, indeed, with this suspicion, that M. Bréant has also conceived the idea of instituting an accessory prize of 5000 france, being the annual interest of the capital of the larger one, to be decreed as a recompense to the authors of works which have increased our knowledge of the cholers, or of other epidemic diseases. Comprehending both the high mission which has been confided to it, and the wishes of the testator, the Section has demanded that the specific for the cholera, the discovery of which is the object of the concours, shall cure this disease as certainly as cinchona of the testator would be accomplished, if who can throw new light on their etiology. during the search for causes, a prophylaxis for the cholera were discovered, as complete as that of vaccination for variola.

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From November 20, 1856, the date of the last report, to May 1, 1858, the Academy has received 153 memoirs or communications. Among this large number many contain only suppositions more or less improbable, sometimes accompanied by insignificant observations, and sometimes de- fusion in the twenty-four hours, divided into manding almost impossible experiments, three doses. M. Seguin had, indeed, as far which the Section is itself expected to back as 1846, recognized the utility of iodine institute. Other works of a more com- in obstinate chronic ague, which resisted mendable character embrace the history of quinine: while Dr. Manfredonia, of Naplea, cholera, expand on its etiology, the fixity of in 1855, found that very obstinate cases its symptoms, and the constancy of the yielded rapidly to the iodide of quinine, in morbid changes it leaves behind it. But doses of from 1 to 2 drachms per diem. Thus they add nothing to what is already known, far the iodine has been found only applicaand contain no result capable of elucidating ble to old, inveterate cases. - Revue Med.

diseases. A third class of papers relates to the statistics of cholera; but these documents, interesting probably in the localities to which they refer, bear no relation to the questions at issue. Two memoirs alone show that their authors have properly comprehended the nature of the questions put. One by a Russian physician at Smolensk, proposing to treat cholera by variolous inoculation, and the other by Dr. Ayre on the treatment of cholera by calomel. Both memoirs failed in convincing the committee of the reality of their pretensions.

To keep the future candidates within the limits of the conditions under which the prize will be awarded, the Section repeats that in order to carry off the 100,000 franc prize, it will be necessary to discover a remedy which in the immense majority of cases will cure the Asiatic cholera; or to indicate, in an incontrovertible manner, the causes of the cholera, so that by the suppression of these, the disease may be arrested; or, finally, to discover a prophylaxis as certain and as evident as is vacci-

nation in variola.

In order to obtain the annual prize of 5000 francs, it will be necessary to demonstrate by exact processes the existence of matters in the atmosphere capable of playing a part in the production of propagation of epidemic diseases.

In the case of these conditions not being fulfilled with regard to this latter prize, it will be awarded to him who discovers a does ague. It also believes that the desire means of radically curing "dartres," or -Med. Times and Gaz., July 3, 1858.

> Iodine as a Febrifuge.-M. BARBASTE tried the effect of this substance in 3 cases of old intermittent and paludal cachexy, for which quinine had been given in vain. was quite surprised at the promptitude of the results he obtained from administering 30 drops of tincture of iodine in a bitter in-

Question of the Cure of Cataract without of the mouth, fauces, and other mucous Operation .- M. TESTELIN has compiled an structures. elaborate paper investigating the reputed cases of cure of cataract without surgical operation; and he quite agrees in the conclusion come to by a very large majority of ophthalmologists who met at the Brussels congress, viz., that there is not on record any case sufficiently authenticated proving that medical treatment can arrest or cause the retrocession of a spontaneous opacity of the crystalline lens .- Med. Times and Gaz., July 3, 1858, from Annales d' Oculistique, t. xxxix.

Tears containing Sugar from a Case of Diabetes .- Dr. GIBB showed to the Pathological Society (May 18) some tears shed by a young married lady, aged 21, the mother of one child, who has had diabetes for two years since the child was weaned. They contained a large amount of sugar, as contrasted with that in an equal bulk of her urine, which was of the specific gravity of 1043. An evaporated drop of the tears on a piece of glass gave a much thicker and more opaque crust than was yielded by a drop of the urine .- Med. Times and Gaz., July 3, 1858.

Painless Cauterization .- M. PIEDAGNEL has lately proposed to mix a certain proportion of hydrochlorate of morphia with caustic pastes, so as to lessen, if not to remove altogether, the pain connected with the application of such pastes. To three parts of the compound known as the Vienna powder, M. Piédagnel adds one part of the morphia salt, both in the dry state; and the paste is to be made by adding either chloroform, alcohol, or water. In fifteen minutes a dark eschar is formed. As physician to the Hôtel Dieu the author could use his anæsthetic paste only when ordering issues, &c.; but it has been tried in M. Jobert de Lamballe's ward, upon scrofulous tumours of the neck, and an encephaloid cancer of the foot. The patients stated that they had experienced little or no pain .- Lancet, June 19.

Diphtheria.-Prof. LAYCOCK, in an interesting lecture (Med. Times and Gaz., May 29th) draws an analogy between diphtheria sitic fungus (Oidium albicans) on the surfaces eminent surgeons of his day.

Epidemic Variola at Berlin .- During the month of March the epidemic increased in virulence. The police had notice of 805 cases, and of these 60 died, Of the 805. 659 had been vaccinated, 105 had not been vaccinated, and 41 unsuccessfully vaccinated. Of the fatal cases 17 had been vaccinated, 39 were unvaccinated, and in 5 the vaccination was uncertain. Thus 7.48 per cent. of all the cases proved fatal. Among the vaccinated the proportion was 2.42 per cent., among the non-vaccinated 37.14 per cent., and of the uncertainly vaccinated 12.19 per cent .- Med. Times and Gaz., June 12, 1858.

Cholera in France.-The Journal des Debats has a short article on the cholera in France. The number of victims to this disease in 1854 is estimated at 150,000 only, but this is considered to be far below the real number of deaths. The deaths in the urban or town districts averaged 57 out of every 10,000 inhabitants, and in the rural districts 34 out of every 10,000. The mortality of the two sexes was pretty nearly equal in the towns, but in the country the number of female deaths exhibited a remarkable excess. The ravages of the disease throughout France were strikingly less in the first two "invasions" than in that of 1854: thus in 1832 the deaths from cholera are reckoned at 102,735 only, and in 1849 at 110,110, while in 1854 they rose to 150,000; but it is shown that the disease gains in extent what it loses in intensity.-Ibid.

University of Edinburgh.-Dr. LYON PLAYFAIR has been elected Professor of Chemistry in this school.

Prof. Owen.-This gentleman has been elected Fullerian Prof. of Physiology at the Royal Inst on.

OBITUARY RECORD .- Died, in London, June 16th, 1858, of apoplexy, John Snow, M.D., well known from his researches on chloroform and other anæsthetics.

- in Dublin, June 10th, in the 82d year of his age, Sir PHILIP CRAMPTON, Bart., and muguet, and maintains that both these one of the ablest surgeons which Ireland diseases are due to the presence of a para- has ever produced, and one of the most